

Recombinant Human CANT1 Protein (Ile107-Phe400), His tagged

Cat. No. CANT1-1083H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CANT1 (Ile107-Phe400) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile107-Phe400
Description	CANT1 (calcium activated nucleotidase 1) belongs to the apyrase family. Apyrase is a calcium-activated plasma membrane-bound enzyme (magnesium can also activate it) (EC 3.6.1.5) that catalyses the hydrolysis of ATP to yield AMP and inorganic phosphate. Two isoenzymes are found in commercial preparations from S. tuberosum. One with a higher ratio of substrate selectivity for ATP: ADP and another with no selectivity. It can also act on ADP and other nucleoside triphosphates and diphosphates with the general reaction being $NTP \rightarrow NDP + Pi \rightarrow NMP + 2Pi$. The salivary apyrases of blood-feeding arthropods are nucleotide hydrolysing enzymes are implicated in the inhibition of host platelet aggregation through the hydrolysis of extracellular adenosine diphosphate. CANT1 functions as a calcium-dependent nucleotidase with a preference for UDP. Defects in CANT1 are the cause of desbuquois dysplasia.
Form	Lyophilized powder/frozen liquid

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Molecular Mass	33.15 kDa
Purity	>90% as determined by SDS-PAGE.
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	CANT1 calcium activated nucleotidase 1 [Homo sapiens (human)]
Official Symbol	CANT1
Synonyms	CANT1; calcium activated nucleotidase 1; soluble calcium-activated nucleotidase 1; SCAN 1; SHAPY; Soluble Ca Activated Nucleotidase; isozyme 1; apyrase homolog; putative MAPK-activating protein PM09; putative NF-kappa-B-activating protein 107; soluble Ca-activated nucleotidase, isozyme 1; soluble calcium-activated nucleotidase SCAN-1; Ca2+-dependent endoplasmic reticulum nucleoside diphosphatase; micromelic dwarfism with vertebral and metaphyseal abnormalities and advanced carpotarsal ossification; DBQD; SCAN1; SCAN-1;
Gene ID	124583

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mRNA Refseq	NM_001159772
Protein Refseq	NP_001153244
MIM	613165
UniProt ID	Q8WVQ1

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